

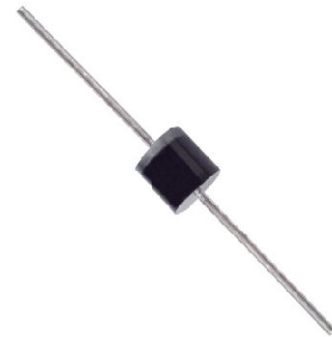
Silicon Rectifier, 6.0A

Features

- Diffused junction
- Low cost
- Low reverse leakage current
- High current capability & low forward voltage drop
- Plastic material carrying UL recognition 94V-0
- Polarity: Color Band denotes Cathode
- Lead free finish

Thermal and Mechanical Specifications ($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

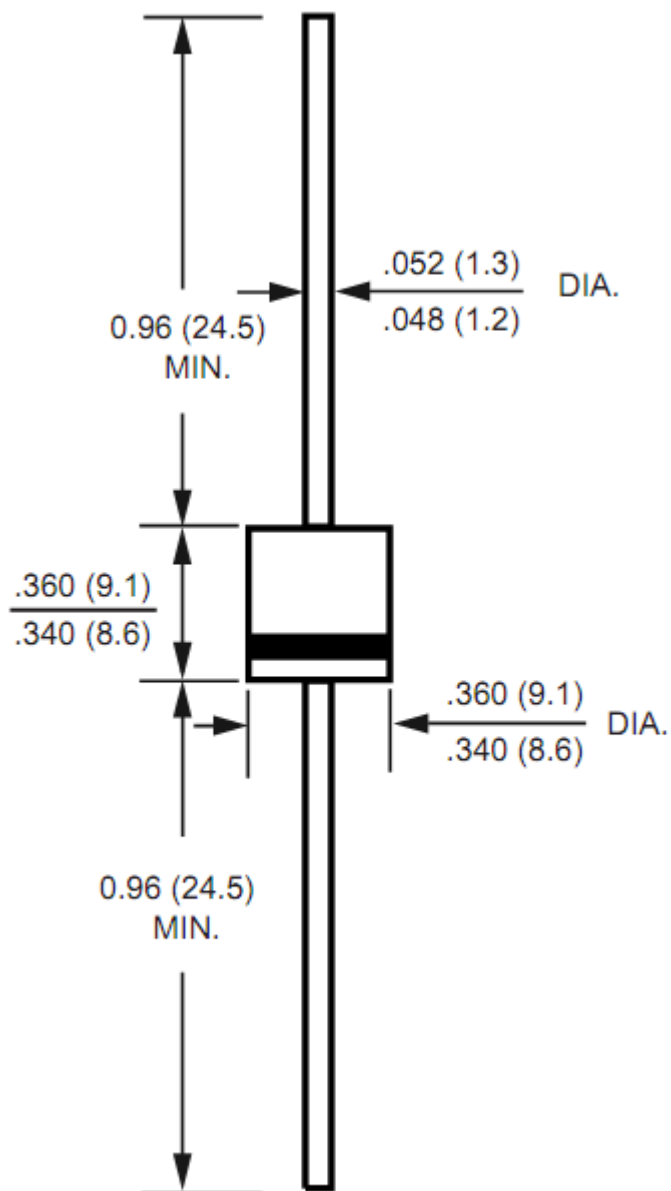
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	T_J	-55 to +150	$^{\circ}\text{C}$
Maximum storage temperature range	T_{Stg}	-55 to +150	$^{\circ}\text{C}$
Typical thermal resistance junction to ambient	$R_{\theta JA}$	10	$^{\circ}\text{C/W}$
Approximate weight	W	2.1	g



JEDEC R-6

Electrical Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Units
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output current @ T _A = 50°C		I _{F(AV)}	6.0							A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load		I _{FSM}	400							A
Maximum DC forward voltage drop per element @ 10 A		V _F	0.9							V
Typical junction capacitance		C _J	150							pF
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C	I _R	10							μA
	T _A = 100°C		100							



Dimensions in inches and (millimeters)